

**COLUMBIA  
PICTURES**



A COLUMBIA PICTURES RELEASE

a SONY PICTURES ENTERTAINMENT company

Columbia Pictures Presents

A Centropolis Production

**2012**

Directed by  
Roland Emmerich

Written by  
Harald Kloser & Roland Emmerich

Produced by  
Harald Kloser  
Mark Gordon  
Larry Franco

Executive Producers  
Roland Emmerich  
Ute Emmerich  
Michael Wimer

Director of Photography  
Dean Semler, ACS ASC

Production Designer  
Barry Chusid

Edited by  
David Brenner, A.C.E.  
Peter S. Elliot

Music by  
Harald Kloser and Thomas Wander

Co-Producers  
Volker Engel  
Marc Weigert

Co-Producer  
Aaron Boyd

Costume Designer  
Shay Cunliffe

Casting by  
April Webster, CSA

John Cusack

Chiwetel Ejiofor

Amanda Peet

Oliver Platt

Thandie Newton

Tom McCarthy

George Segal

with Danny Glover

and Woody Harrelson

Liam James  
Morgan Lily  
Blu Mankuma

Zlatko Buric  
Beatrice Rosen  
John Billingsley

Chin Han  
Osric Chau  
Philippe Haussmann  
Alexandre Haussmann

Jimi Mistry  
Johann Urb  
Ryan McDonald  
Stephen McHattie

Lisa Lu  
Henry O  
Patrick Bauchau  
Chang Tseng

a Roland Emmerich Film

Cast  
Jackson Curtis John Cusack

Kate Curtis	Amanda Peet
Adrian Helmsley	Chiwetel Ejiofor
Laura Wilson	Thandie Newton
Carl Anheuser	Oliver Platt
Gordon Silberman	Tom McCarthy
Charlie Frost	Woody Harrelson
President Thomas Wilson	Danny Glover
Noah Curtis	Liam James
Lilly Curtis	Morgan Lily
Yuri Karpov	Zlatko Buric
Tamara	Beatrice Rosen
Alec	Alexandre Haussmann
Oleg	Philippe Haussmann
Sasha	Johann Urb
Professor West	John Billingsley
Tenzin	Chin Han
Nima	Osric Chau
Grandfather Sonam	Chang Tseng
Grandmother Sonam	Lisa Lu
Harry Helmsley	Blu Mankuma
Tony Delgatto	George Segal
Captain Michaels	Stephen McHattie
Roland Picard	Patrick Bauchau
Dr. Satnam Tsurutani	Jimi Mistry
Scotty	Ryan McDonald
German Chancellor	Merrilyn Gann
Lama Rinpoche	Henry O
Ark Communications Officers	Patrick Gilmore
	Dean Marshall
Ark Boarding Officers	Ron Selmour
	Viv Leacock
	Chris Boyd
AF1 Science Officers	Donna Yamamoto
	Doron Bell, Jr.
AF1 Lieutenant	David Orth
Governor	Lyndall Grant
Ark Tech Officer	Jason Diablo
AF1 Officer	Ty Olsson
President Sergey Makarenko	Zinaid Memisevic
Chinese Colonel	Vincent Cheng
Russian Interpreter	Igor Morozov
Woman Comforting Child	BJ Harrison
Paramedic	Dominic Zamproгна
Sally – President's Secretary	Karin Konoval
Jackson's Neighbor	Mary Gillis
Megaphone Officer	Rick Tae
Saudi Prince	Parm Soor
Isaacs - MI6 Officer	Gerard Plunkett
Zultan	Paul Tryl
Zultans Trainer	Andrei Kovski
News Reporter – Tikal	Val Cole
Cashier	Eve Harlow
Interrogating Officer	Sean Tyson
Italian Prime Minister	Leonard Tenisci
Boxing Announcer	Michael Buffer
Ship Waiter	Daren A. Herbert

Vegas Rescue Worker	Craig Stanghetta
Ajit – age 5	Mateen Devji
Ajit – age 9	Qayam Devji
CNN Anchor	Jody Thompson
Mrs. Birnbaum	Tanya Champoux
Preacher	Frank C. Turner
Yoko Delgatto	Kinua McWatt
British Newscaster	Laara Sadiq
Cruise Ship Ladies	Gillian Barber
	Candus Churchill
	Beverley Elliott
Aparna	Agam Darshi
Gurdeep	Raj Lal
Dr. Lokesh	Pesi Daruwalla
AF1 Stewards	Jacob Blair
	Jay Williams
Ark Naval Officers	Scott Miller
	Anna Mae Routledge
Pilot	John Stewart
Surfers	Ryan Cook
	Brandon Haas
	Eddie Hassell
Elderly Drivers	Betty Phillips
	Georgina Hegedos
Vegas Tow Truck Driver	Luis Javier
Vegas Fireman	Dean Redman
Security Commander	Gordon Lai
Field Reporter – Tikal	Mark Docherty
Fundraiser Security	Mark Oliver
Policeman	Andrew Moxham
Paris Reporter	Alexandra Castillo
Saudi Senior Security	Farouk A. Afify
US Army Worker	Shaun Wilson
Chinese Soldier	Leo Chiang
Queen Elizabeth	Elizabeth Richard
Cho Ming Platform Officer	Kyle Riefsnyder
Angry Billionaire	John Mee
American Ark Steward	George Trochta
Ark Bridge Crew	Geoff Gustafson
	Alex Zahara
	Jase Anthony Griffith
	Jill Morrison
	Thomas Parkinson
	Leona Naidoo
	Quentin Guyon
	Nicole Rudell
	Chad Riley
	Simon Leung
	Kevin Haaland
US Army Worker	Leigh Burrows
Stunt Coordinator	John Stoneham, Jr.
Assistant Stunt Coordinators	Jacob Mervine
	Michael A. Mitchell

Stunts

Scott Ateah	James Bamford	Brittney Banks
Krista Bell	Kacie Borrowman	Eddie Braun
Joe Bucaro	Janean Carleton	Brett Chan
Mike Crestejo	Garvin Cross	Crystal Dalman
Alex Daniels	Laura Dash	Mike Dobbin
Jim Dunn	Wade Eastwood	Lani Gelera
Mickey Giacomazzi	Cory Glass	Christopher Gordon
Leif Havdale	Adrian Hein	Brian Ho
Dave Hospes	David Jacox	Ken Kirzinger
Randy Lee	Brad Loree	Reg Milne
Tony Morelli	Efosa Otuomagie	Gerald Paetz
Dan Shea	Kimani Ray Smith	Maja Stace-Smith
Larissa Stadnichuk	Jodi Stecyk	Melissa R. Stubbs
Monte Thompson	Marshall Virtue	Owen Walstrom
	Roxanne Wong	
Unit Production Manager Michael J. Malone		
First Assistant Director Tommy Gormley		
Second Assistant Director David K. Arnold		
Associate Producer Kirstin Winkler		
Production Manager – Canada Drew Locke		
Visual Effects Producer Josh R. Jaggars		
Supervising Art Director Don MacAulay		
Art Directors		
Dan Hermansen	Ross Dempster	Kendelle Elliott
	Set Decorator Elizabeth Wilcox	
	Property Master Wayne McLaughlin	
	Script Supervisor Kimi Webber	
	VFX Script Supervisor Ana Sebal	
Steadicam / Camera Operators John Clothier		
Peter Wilke		
Camera Operators Richard Merryman		
Norbert Kaluza		
First Assistant Camera		
Tony Rivetti	Stephen Maier	Sean Elliott
Second Assistant Camera		
Roger Wall	Ian Levine	Scott Cozens
Andy Capicik		
Underwater Director of Photography Pete Romano, ASC		
Digital Imaging Technician Patrick Hogue		
Assistant Costume Designers		
Eduardo Castro	Karin Nosella	Alison Fraser
Costume Supervisor James Tyson		
Costume Coordinator Jessica Lythgoe-Green		
Key Costumer Dawn Leigh Climie		
Costumers		
Kevin Harrison	Lauren Walker	Erin Evans
Costumer for Mr. Cusack André Brouwer		
Department Head Makeup Thomas Nellen		

Makeup Artist	Connie Parker	
Makeup Artist for Mr. Cusack	Gitte Axen	
	Taylor Roberts	
Department Head Hair	Sanna Seppanen	
Assistant Hair Stylists	Forest Sala	
	Debra Wiebe	
Chief Lighting Technician	Jim Gilson	
Assistant Chief Lighting Technician	Sean Davis	
Key Rigging Gaffer	Jarrold Tiffin	
Best Boy Rigging Electrics	Sierra Hurst	
	Chris Stigter	
Key Grip	William Paul	
Second Grip	Dan Gorval	
Dolly Grips	Gil Forrester	
	Bryce Shaw	
Key Rigging Grip	Kevin McCloy	
Best Boy Rigging Grips	Rick Guenther	
	Julien Bosse	
Production Mixer	Michael McGee	
Boom Operator	Charlie O'Shea	
Cable Operator	Candice Todesco	
Video Playback	David McKnight	
Computer and Video Graphic Designer	Gladys Tong	
Special Effects Supervisor	Mike Vezina	
Special Effects Coordinator	Cam Waldbauer	
Special Effects Technicians		
Stewart Bradley	Brad Zehr	Mike Splatt
Clancy Scheirer	Gary Minielly	Joel Whist
John MacCuspie		Ian Binney
Special Effects Designer	Trevor Hill	
Electronics Engineer	Jordan Kidston	
CNC Operator	Nic Curragh	
Mechanical Engineer	Rafael Sola	
Lead Fabricator	Andrew Sullthorp	
Location Managers	Ann Goobie	
	Hans Dayal	
Assistant Location Managers	Paul Giordano	
	Peter Klassen	
Production Coordinator	Jena Niquidet	
Travel Coordinator	Rhona Williscroft	
Assistant Production Coordinator	Simon Carrigan	
Production Secretaries	Fleur Western	
	Cara E. Anderson	
Production Controller	Donald Walker	
Production Accountant	Karen Bergen	
1 <sup>st</sup> Assistant Accountants	Ricky Cuevas	
	Barbara Mercer	
Construction Coordinator	Doug Hardwick	

	Construction Foremen	
Mike McLeod	Mark Stainthorpe	Dave Conway
	On-Set Carpenter Mikal Williams	
	Head Sculptor Nick Tattersfield	
	Metal Fabricator Foremen	
John Panozzo	Wayne Beraducci	Rory Rennison
	Paint Coordinator Jason Claridge	
	Paint Foremen Carole Kelly	
	JJ Mestinsek	
	On-Set Painter Mark Tompkins	
	Head Greensman Glenn Foerster	
	Lead Greensperson Stephen Watts	
	Set Designers	
Jay Mitchell	John Burke	Peter Ochotta
Douglas A. Girling	Nancy Brown	Peter Stratford
	David Clarke	
	Assistant Art Directors	
Laurel Bergman	Peter Bodnarus	Catherine Ircha
	Andrew Li	
	Illustrators	
Milena Zdravkovic	Rob Jensen	Warren Flanagan
	Concept Artists Tex Kadonaga	
	James Clyne	
	Storyboard Artist Tim Burgard	
	Graphic Designers Loree Cameron	
	Sally Hudson	
	Art Department Coordinator Carie Wallis	
	On-Set Dresser MacLeod Sinclair	
	Assistant Property Masters Marta McLaughlin	
	Eric Partridge	
	Property Assistants Gavin DeWest	
	Paul Wagner	
	Unit Publicist Kym Langlie	
	Still Photographer Joe Lederer	
2nd Second Assistant Director	Gary Hawes	
3 <sup>rd</sup> Assistant Director	Megan Shank	
DGC Trainees	Alleris Gillham	
	Shaun Moskie	
Assistants to Mr. Emmerich	Rick Tae	
	Marco Shepherd	
Assistant to Mr. Kloser	Haley M. Wilson	
Assistants to Mr. Gordon	Shara Senderoff	
	Allyson Seeger	
Assistant to Mr. Franco	Ozzie Scott	
Assistant to Mr. Cusack	Judy Heinzen	
Assistant to Ms. Peet	Mandy Olsen	
Assistant to Mr. Ejiofor	Zack Tucker Gangnes	
Assistant to Ms. Newton	Laura Clarke	
	Production Assistants	
Eli Best	Jenny Caceres	Claudia Costa
Byron Fudge	Kohl Harrington	Jina Johnson
Candice Preddy	William Stewart	Jon Sturge
David Scott Thomson		Jessica Winters

Canadian Casting by  
Susan Brouse, CSA and Judy Lee

Casting Associate Scott David  
Casting Assistant Gina Sharp  
Extras Casting Andrea Brown

Catering by Twice a Night Catering  
Mathew Towstyka  
Lee McNish  
Craft Service/Medic Diane Berezay  
Brianna Lawrence

Military Advisor Ron Blecker  
Scientific Consultant John P. Platt  
Animal Trainer Dana Dube

Transportation Captain Blue Angus  
Transportation Co-Captains Tim Fortin  
Nick Diomis

## **SECOND UNIT**

2<sup>nd</sup> Unit Director Aaron Boyd  
Production Coordinator Michael Fossat  
First Assistant Directors Andrew Robinson  
James Bitonti  
Second Assistant Director Misha Bukowski  
3<sup>rd</sup> Assistant Director Aric Dupere

Property Master David Dowling  
Script Supervisor Christine Lalonde

"B" Camera Operator Robin Forst  
Director of Photography/ Camera Operator Don McCuaig  
First Assistant Camera Douglas Pruss  
Doug Lavender

Second Assistant Camera  
Rich Sinclair Raj Sangha Cynthia Greer

Costume Supervisors Lise Hache  
Summer Eves  
Makeup Artists Jayne Dancose  
Fay Von Schroeder  
Hair Stylist Ian Ballard

Chief Lighting Technician Cory Hodson  
Best Boy Electric Fred Wilson  
Key Grip Tony Whiteside  
Best Boy Grip Matt Almas  
Dolly Grip Russell Hawkes

Sound Mixer Eric Lamontagne  
Boom Operator Graham Crowell  
Video Assist Casey MacIntyre

Production Office Coordinator	Evangeline Morgan
Production Assistant	Beau Ferris
On-Set Dresser	Chad Chilibeck
Assistant Property Master	Spencer Louttit
Aerial Coordinator	Fred North
Aerial Directors of Photography	Anna J. Foerster
	Hans Bjerno
Unit Production Manager – Kamloops	Bruce Brownstein
Art Director - Kamloops	Kendelle Elliott

#### POST PRODUCTION

Visual Effects Editor	Samuel Craven	
1 <sup>st</sup> Assistant Editors	Robert Malina	
	Richard B. Molina	
Assistant Editor	Thom M. Kyle	
Visual Effects Assistant Editors	Greg Reed	
	Elana Livneh Lessem	
Apprentice Editor	Cassie Dixon	
Supervising Sound Editor/ Sound Designer	Paul N. J. Ottosson, MPSE	
Assistant Sound Editors		
Ryan B. Juggler, MPSE	Matthew Paul Hanson	Tricia Linklater
	Sound Effects Editors	
Jamie Hardt	Bernard Weiser, MPSE	Ai-Ling Lee
	Angelo Palazzo	
ADR Supervisors	Renée Tondelli	
	Michael J. Benavente	
ADR Editors	Susan Dudeck	
	Michele Perrone	
Dialogue Editors	Robert Troy	
	Michael Hertlein	
Foley Supervisor	Mark Pappas	
Foley Editor	Thom Brennan	
Foley Mixer	Mike Marino	
Foley Artists	Gary Hecker	
	Michael Broomberg, MPSE	
ADR Mixer	Howard London, C.A.S.	
Supervising Sound Mixers		
Jeffrey J. Haboush	Michael Keller	Rick Kline
Loop Group	The Reel Team	
Post Sound Services Provided by	Sony Pictures Studios	
	Culver City, California	
Music Editor	Fernand Bos	
Assistant Music Editor	Adrian van Velsen	
Score Mixer	Shawn Murphy	
Conducted & Orchestrated by	James Brett	
Orchestrators	Robert Elhai	
	Marcus Trump	

Music Contractors	DeCrescent & Rotter	
Copyist	Ross de Roche	
Additional Music by	Thomas Schobel	
Synth Programming	Lothar Bellutta	
Main Title Design and Charlie Frost Video by	Johannes Mücke	
End Titles by	Scarlet Letters	
Digital Intermediate by	EFilm	
Digital Colorist	Yvan Lucas	
Negative Cutter	Mo Henry	
Animatronic Effects by	Legacy Effects	
	J. Alan Scott	
	Rob Ramsdell	
	Brian Namanny	
Visual Effects Supervisors		
Volker Engel		
Marc Weigert		
Digital Production Manager	Danielle Costa	
Visual Effects Coordinators	Katie Spinelli	
	Lisa Marra	
Visual Effects Accountant	John D. Vaughan	
Playback Operator	Chris F. Moore	
Post-Visualization Artist	Tom Bruno, Jr.	
Production Assistant	Kohl Harrington	
Data Wranglers	Gord Dunick	
	Stephen Chan	
Virtual Camera Operator	Alastair Macleod	
Visual Effects and Digital Environments		
created by		
Uncharted Territory		
CG Supervisor	Michael Grobe	
Compositing Supervisor	Marc Dominic Rienzo	
CG Effects Supervisor	Ari Sachter-Zeltzer	
Project Managers	Katharina Koepke	
	Magdalena Wolf	
Lighting and Modeling Lead	André Cantarel	
Lighting Lead	Greg Tsadilas	
Lead Compositor	Niki Bern	
Matte Painting Supervisor	Ivo Horvat	
Modeling Lead	Justin Mijal	
Texture Leads	Greg Strasz	
	Federico Rivia	
Rebel Unit Compositors	Rony Soussan	
	Ryan Smolarek	
VFX Producer	Julia Frey	
Senior CG Effects Artists		
Sam Khorshid	Joe Scarr	Christian Zurcher
	Attila Zalanyi	
	CG Effects Artists	
Derek Blume	Rudy Cortes	Jason Crosby
Rif Dagher	Nick Damico	Brian DeMetz

Wayne England	Ian Farnsworth	David Glicksman
Joe Gunn	Ahmed Hassan	Alessandro Nardini
Goran Pavles	Will Shepherd	Gavyn Thompson
	Mike Walls	
	Senior Lighting TDs	Erick Schiele
		Joe Mangione
	Lighting TDs	
Curtis Cardwell	Robert Freitag	Anthony Juno Han
Justin Lloyd	Nathan Millsap	Alex Scollay
Marion Spates		Rodrigo Teixeira
	Compositors	
Dan Akers	Brian Begun	Krista Benson
Ante Dekovic	Peter Demarest	Christina Drahos
Eddie Gutierrez	Jason Halverson	Nicholas Kim
Anthony Kramer	Joshua LaCross	Mark M. Larranaga
Jessica Laszlo	Gresham Lochner	Charles Meredith
Salima Needham	Christian Schermerhorn	Nabil Schiantarelli
Clancy Silver	Maciek Sokalski	Stefano Trivelli
Stacey Weigert		Joseph Zaki
	Modelers	
Matan Abel	Moriba Duncan	Apollo S. J. Kim
Andrew Swihart		Pouya Zadrafiei
	Senior Matte Painters	
Dylan Cole	Michele Moen	Rick Rische
	Matte Painters	Dark Hoffman
		Alex Nice
	Texture Artists	
Chris Duncan	Paul Fedor	Brian F. Ripley
	Animators	
Robert Diaz	John Kubasco	Conrad Murrey
	Matchmovers	Francis L. Camacho
		Gary Laurie
	Massive TD	Philipp Hartmann
	Roto and Paint Lead	Edgar Diaz
	Nuke TD	Nathan Dunsworth
	Pipeline TD	Paul Hormis
	Lead Pipeline Developer	Patrick Wolf
	Pipeline Programmer	Bilal Azam
	Senior IT Manager	Jack Ghoulian
	I/O Manager	Andrew Whitelaw
	IT Coordinator	Dennis Murillo
	Render Wranglers	
Ramon Hernandez	Daniel Sang Yong Lee	Melanie Tucker
	Production Accountant	Laura Tiz
	Visual Effects by	
	Scanline VFX	
	Senior Visual Effects Supervisor	Stephan Trojansky
	Visual Effects Supervisor	John Han
	Executive Producers	Joel Mendías
		Ismat Zaidi
	VFX Producer	Michael Mielke
	Digital Producer	Lisa Spence
	CG Supervisors	
Ivo Klaus	Danielle Plantec	Roman Schmidt

	Digital Supervisor	Deborah Carlson	
	R&D TD	Lukas Lepicovsky	
	FX Lead	Saysana Rintharamy	
	Compositing Supervisors	Chris LeDoux	
		Kai Woytke	
	Additional Visual Effects Supervisor	Bryan Grill	
	Shading Supervisor	Christian Pokorny	
	Lighting Lead	Olek Lyzwanski	
	Environments Lead	Brandon Young	
	VFX Production Manager	James Dornoff	
	FX TD's		
Joel Einhorn	Jongwoo Heo	Justin Mitchell	
Masakazu Murakami	Timo Schumacher	Davide Sibilia	
	Travis Yohnke		
	CG Generalists	Markus Boos	
		Fred Haro	
	Massive TD	Carla Heinzl	
	Shading / Lighting TD's		
Gerald Abraham	David Bryant	Sebastian Hirsch	
Scott Tessier	Jose Manuel Weil	Gereon Zwosta	
	Modeling Supervisor	Dirk Mauche	
	Modelers		
Claudia Knorr	Kevin Mains	Sepp Sonntag	
	Matte Painters		
Shannan Burkley	Benjamin Ross	Jay Seo	
	Daniel Thron		
	Compositors		
Jessica Alcorn	Matt Doll	Andreas Frickinger	
Robin Graham	David Harter	Finlay Hogg	
Christine Peterson	Craig Simms	Brian Smallwood	
	Ned Wilson		
	I/O Coordinators	Kevin VanderJagt	
		Bjoern Wortmann	
	Render Wranglers		
Jonathan Bird	David Hackett	Michael Underwood	
	Flowline Software Developers		
Thomas Ganshorn	Oliver Pilarski	Sebastian Thiel	
	Systems Engineers	Carl Loeffler	
		Michael Scheffler	
	Digital Production	Laurie Blavin	
		Scott Miller	
	Visual Effects by		
	Double Negative		
	VFX Supervisor	Alex Wuttke	
	VFX Producer	Lorna Paterson	
	CG Supervisor	Gavin Graham	
	Compositing Supervisor	Matthew Twyford	
	VFX Line Producer	Emma Larsson	
	VFX Coordinator	William Skellorn	
	VFX Editorial	Leanne Young	
	Lead CG Artists		
John Kilshaw	Phil Johnson	Vanessa Boyce	
	Lead Compositors	Jelena Stojanovic	
		Julia Reinhard	

	Lead Matchmover	Joel Prager	
	Animators	Craig Crane	
		Nigel Rafter	
	Lighting Artists		
Cenay Oekmen	George Plakides		Gia Sadhwani
Guy Williams	John Seru		Luke Bailey
Max Decroix	Peter Szewczyk		Tim D Jones
	Lead FX Artists		
Eduardo Schmidek	Joe Thornley		May Leung
	Nicola Hoyle		
	FX Artists		
Aline Sudbrack	Andrew Feery		Bjorn Henriksson
Bruno Ebe	Christian Waite		Christopher Kilshaw
Daniel Paulsson	Georg Kaltenbrunner		Greg King
Ian Frost	Jamie Briens		Jason Harris
Jean-Claude Nouchy	Jeremy Smith		Jonathan Davies
Kai Stavginski	Luca Zappala		Lukas Niemczyk
Mark Spevick	Markus Drayss		Richard Gomes
Simon Pate	Sotiris Georghiou		Steven Shearston
Tim Jones	Tim Riley		Will Elsdale
	Rotoscope Artists	Yilun Zhu Cleve	
		Mark Bortolotto	
	Matte Painter	Christian Kesler	
	Compositors		
Alastair Crawford	Alberto Montanes		Alex Ireland
Andrew Simmonds	Benjamin Krebs		Bimla Chall
Carlo Scaduto	Ciaran Crowley		Dean Koonjul
Geoffroy Givry	Helen Wood		Judy Barr
Kate Porter	Mike Foyle		Naveen Medaram
Paul Venn Stirling	Rafal Kaniewski		Richard Fox
Richard R. Reed	Sangita Mistry		Sarah Lockwood
Serena Lam			Susanne Becker

Special Visual Effects and Animation  
by  
Sony Pictures Imageworks Inc. Culver City, CA

	Visual Effects Supervisor	Peter Nofz	
	Visual Effects Producer	Lisa Goldberg	
	Computer Graphics Supervisors	Daniel Eaton	
		John Haley	
	Lead CG Lighting and Compositing Artists		
Matt Dessero	Nick Loy		Douglas James Smith
	Carlos Vidal		
	CG Lighting and Compositing Artists		
Laide Agunbiade	Max Bruce		Mark Burns
Colin Campbell	J.D. Cowles		Huyen Minh Dang
Quentin Frost	Harry Gunderson		Michael Kennedy
Joosten Kuypers	Kenny Lam		Dan Lavender
Mark Lefitz	Lyndon Li		Paolo Moscatelli
Vinh Nguyen	Alberto Noti		Anuj Patil
Jason Piccioni	John Sasaki		David Satchwell
Jeff Shank	Nancey S. Wallis		Eric Weinschenk
	Virginia Wissler		
	Sr. Flame Artists		
Tony Diep	Doug Forrest		Todd B. Mesher

	David Takayama	
	Lead Animator Koji Morihiro	
	Animators Marco Marengi	
	Max Tyrie	
	Crowd Effects Supervisor W. Garcia Cunningham	
	Crowd Effects Artists Joseph Graham Pepper	
	Bill La Barge	
	Crowd Effects Engineer Sosh Mirsepassi	
	Lead Texture Artist The-Hung Quach	
	Texture Artists	
Dylan Gottlieb	Kerry Nordquist	John Wallace
	Chris Qi Yao	
	Animation Support Lead John Hood	
	Animation Support Brian Doman	
	Lead Matte Painter Nick Hiatt	
	Matte Painter Marc Samson	
	CG Modeling Supervisor Kui Han Lee	
	CG Modelers	
David Emery	Minh Duong	Yoosung Shin
	Digital Production Supervisor Evangeline Monroy	
	Supervising Coordinator Keith Luczywo	
	Visual Effects Coordinator Ian Jude McIntosh	
Production Supervisor - Matchmove and Rotoscope	Joe Gareri	
CG Supervisor - Matchmove and Rotoscope	Gomathi Ramalingam	
Production Manager - Matchmove and Rotoscope	Navin Venkatesh	
Production Coordinator - Matchmove and Rotoscope	Elayaraja	
	Lead Matchmove Artist John Giffoni	
	Matchmove Artists Saravanan.T	
	E. Suresh Kumar	
Lead Digital Painter and Rotoscope Artist	Marcus Carter	
	Paint Artists D. Prasanna	
	Paint Artist R. Magesh	
Lead Technical Support	Matthew Douglas Brown	
Technical Support	Leah Wouters	
	Steven Glazer	
	Visual Effects Editor Guy Wiedmann	
	Production Accountant Robb Miller	
	Production Scheduling Wendy Mashburn	
	Shader Supervisor John Monos	
	Shaders Andreas Bauer	
	Character Setup Artist Keridan Elliott	
Special Visual Effects And Digital Animation		
By		
Digital Domain Venice, CA		
	Visual Effects Supervisor Mohen Leo	
	Visual Effects Producer Kelly L'Estrange Patterson	
	Digital Effects Supervisors David Hodgins	
	Darren M. Poe	
Computer Graphics Supervisors	Haarm-Pieter Duiker	
	David J. Stephens	
	Digital Producer Kymber Lim	
CG Effects Animation Leads	Mårten Larsson	
	Ryo Sakaguchi	
	CG Effects Animators	

Dennis Blakey	Todd Boyce	Todd Dufour
Antoine Durr	Brett Ellis	Brian Gazdik
Stuart D. Gordon	Dean Alexander Grubb	Jaymie Miguel
Cezar Niculescu	Andrew Paules	Robert Charles Thomas
Rémy Torre		Jun Watanabe
Animation Set-Up Artist	Dae Ho Han	
Procedural Character Animation Lead	Chad Finnerty	
Procedural Character Animation Artists	Brian G. Curtis	
	Nick Levenduski	
CG Modeling Lead	BJ Christian	
	CG Modeling Artists	
Brian Creasey	Howie Muzika	Christopher Sanchez
	Marc Steinberg	
CG Texture Lead	John McGee	
	CG Texture Artists	
Jamie Bowers	Ron Bushaw	Sun Chung
CG Lighting Lead	Hanzhi Tang	
	CG Lighting Artists	
Dan Dixon	Frederic Durand	Jim Hillin
Isaac Irvin	Kenny Jackson	J.T. Lawrence
Sean Claude Rivet	Bill Spradlin	Dann Tarmy
	Genevieve Yee	
Digital Environments Lead	Andres Martinez	
Digital Environments TD	Dennis A. Martin	
3D Integration Lead	Peter Herlein	
Software Engineer	Nafees Bin Zafar	
	Technical Developers	
Kenneth Ibrahim	Tadao Mihashi	Osiris Pérez
Ramprasad Sampath		Rito Treviño
Digital Compositing Lead	Jason Selfe	
	Digital Compositors	
Eric M. Beaver	Kevin Bouchez	Dan Cobbett
Gareth Dinneen	Michael Harbour	Mike Ocoboc
Francis Puthanangadi	Bob Roesler	Jean Frederic Veilleux
	Deborah Wiltman	
Digital Matte Painter	Jonathan Green	
Digital Rotoscope/Paint Lead	Sarahjane Javelo Chase	
Visual Effects Coordinator	Andrea Biklian	
	Digital Coordinators	
Carolyn Denise Gayle	Rachel A. Margolis Mariscal	Bethany Wilksen
	Bradford Tillman Skiles	
Digital Production Administrator	Jo Lockman	
	Visual Effects by	
	Pixomondo	
Visual Effects Supervisor	Rainer Gombos	
Visual Effects Producer	Steve Kullback	
	Digital Producers	
Annemarie Griggs	Jan Heinze	Sebastian Leutner
Visual Effects Coordinators	Lisa Hansen	
	Franzi Puppe	
Visual Effects Production Assistant	Adam Chazen	
Visual Effects Editor	Derek Drouin	
CG Supervisor	Boris Schmidt	
Lighting Lead / Composer	Riccardo Zanettini	

	Digital Animation Lead	Paul Taylor	
	Digital Animators		
Oliver Zangenberg	Duane Stinnett		Sebastian Butenberg
	CG Modelers		
Fikret Yildirim	Adam Figielski		Marco Wilz
	Digital Artist	Henrik Zähringer	
	Previs Animators		
Fred Haro	Ignacio Garcerón		Jason Stellwag
	Digital Environment Artist	Todd Sheridan Perry	
	Matte Painters	Rene Borst	
		Thilo Ewers	
	Compositors		
Florian Schröder	Michael Dohne		Daniel Sunwoo
Tatjana Bozinovski	Travis Wade Ivy		William Johnson
	Greg Groenekamp		
	CG FX Supervisor	Mohsen Mousavi	
	CG FX Artists		
Andrzej Bandursky	Hristo Velez		Patrick Schuler
	Matchmove Supervisor	Damian Doennig	
	Creature Supervisor	Sven Martin	
	IT	Felix Fissel	
	Visual Effects by		
	[hy*drau"lx]		
	VFX Supervisor	Chris Wells	
	VFX Designers	Colin Strause	
		Greg Strause	
	VFX Executive Producer	Tony Meagher	
	VFX Coordinator	William Marlett	
	Character Supervisor	Joseph M. Harkins	
	Animation Supervisor	Joshua Cordes	
	Modeling Supervisor	Yoshiya Yamada	
	Pipeline Supervisor	Chris Haney	
	Senior Inferno Compositors		
Scott Balkcom	Bill Kunin		Loeng-Wong Savun
	Laura Sevilla		
	Compositors		
Chris Fregoso	Brian Hajek		Daisuke Morita
Chris Payne			Gizmo Rivera
	Character Animators		
	Kirk Cadrette		Marco Capparelli
TJ Burke	Billy Vu Lam		
	Dynamics Effects Animators		
	Josh Hatton		Rob Hubbard
Eric Ebling	Zack Detox Judson		Karl Rogovin
Pasha Ivanov	Lighting Technicians		
	Sebastian Greese		Tulio Hernandez
Curtis Augsperger	Jon Tojek		Shigeharu Tomotoshi
Dan Kruse	Character TD	York N. Schueller	
	CG Generalists		
Miguel Guerrero	Talon Nightshade		Chris Radcliffe
	Cloth Simulator	Marcus Erbar	
	Modelers		
Tamer Eldib	Atsushi Imamura		David Michaels
	Chun Seong Ng		

Camera Tracking / Layout  
Jarrod Avalos      Andrew Collins      Eugene Paluso  
Matte Painter      Sun Lee

Additional Visual Effects by      The Post Office  
Evil Eye  
Technicolor Beijing  
Lemke VFX  
Café FX  
RotoFactory  
Universal Production Partners  
Gradient FX  
Crazy Horse Effects  
Lidar Scanning by      Gentle Giant  
Lidar VFX  
Miniatures by      New Deal Studios  
Pre-vis by      Pixomondo  
Image Engine  
Proof

#### MUSIC

"Afreen Afreen"  
Written by Javed Akhtar and Nusrat Fateh Ali Khan  
Performed by Nusrat Fateh Ali Khan  
Courtesy of Saregama India Ltd.  
By arrangement with The Royalty Network, Inc.

"Minuet" from "String Quintet In E Major, Op. 11 No. 5"  
Written by Luigi Boccherini  
Performed by Borealis String Quartet

"Will The Circle Be Unbroken"  
Written by A.P. Carter  
Performed by The Nitty Gritty Dirt Band  
Courtesy of Capitol Records Nashville  
Under license from EMI Film & Television Music

"Can I Call You Baby"  
Written by James Davis  
Performed by The Pearls  
Courtesy of Now Again Records, LLC  
Under license from Lamp Records

"It Ain't The End Of The World"  
Written by Harald Kloser, Thomas Wander and Matt Charman  
Produced by Harald Kloser and Thomas Wander

"Time For Miracles"  
Written by Alain Johannes and Natasha Shneider  
Produced by Rob Cavallo  
Performed by Adam Lambert  
Adam Lambert appears courtesy of  
19 Recordings Limited/RCA Records

"Fades Like A Photograph"  
Written by Richard Patrick, Harald Kloser and Thomas Wander

Produced by Richard Patrick  
Performed by Filter

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Inspired in part by the book "Fingerprints of the Gods" by Graham Hancock

Production Services in France and the United Kingdom by Jake Productions

Aircraft provided by Heliblack

Footage provided courtesy of HBO Archives

Paul Landowski, "Christ The Redeemer"  
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American Humane monitored the animal action.  
No animals were harmed. (AHAD 01442)



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